# Project Audit

# TESTNET

Project:

## Mobi Pad

April 28, 2022

# Overview

This audit has been prepared for **Mobi Pad** to review the main aspects of the project to help investors make an informative decision in the research process.

You will find a a summarized review of the following main key points:

- Contract's source code
- Project and team
- Website
- Social media & online presence

**This audit is performed for contracts deployed on Binance TESTNET.**

**NOTE: We ONLY consider a project safe if they receive our "Certificate of Trust" NFT. This report only points out any potential red flags found in our analysis. Always do your own research before investing in a project.**

# SpyWolf

# Smart Contract Review

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities

- Assessing the codebase to ensure compliance with current best practices and industry standards.

- Ensuring contract logic meets the specifications and intentions of the client.

- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.

- Thorough line-by-line manual review of the entire codebase by industry experts.



*"The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal"*
*- SpyWolf Team*

# Smart Contract Summary

| Contract Name | MobiPad |
|---|---|
| Ticker | MBP |
| Contract | 0x64Bc4675516608E1Dc45Cb5E08585C5db9e9F6a8 |
| Network | Binance smart chain **TESTNET** |
| Language | Solidity |
| Tax | **Buy: 1%**<br>**Sell: 1%** |
| Total Supply | 2 |
| Max Total Supply | 100,000,000 |
| Status | Not launched |

**Current stats**

| Burn | No burnt tokens |
|---|---|
| LP Address | No liquidity added yet |
| Liquidity | No liquidity added yet |
| MaxTxAmount | No Limit |

## Issues Checking Status

| | |
|---|---|
| Design Logic | **Passed ✓** |
| Compiler warnings. | **Passed ✓** |
| Private user data leaks | **Passed ✓** |
| Timestamp dependence | **Passed ✓** |
| Integer Overflow and Underflow | **Passed ✓** |
| Race conditions and Reentrancy. Cross-function race conditions | **Passed ✓** |
| Possible delays in data delivery | **Passed ✓** |
| Oracle calls | **Passed ✓** |
| Front running | **Passed ✓** |
| DoS with Revert | **Passed ✓** |
| DoS with block gas limit | **Passed ✓** |
| Methods execution permissions | **Passed ✓** |
| Economy model | **Passed ✓** |
| The impact of the exchange rate on the logic | **Passed ✓** |
| Malicious Event log | **Passed ✓** |
| Scoping and Declarations | **Passed ✓** |
| Uninitialized storage pointers | **Passed ✓** |
| Arithmetic accuracy | **Passed ✓** |
| Cross-function race conditions | **Passed ✓** |
| Safe Zeppelin module | **Passed ✓** |
| Fallback function security | **Passed ✓** |

# Featured Wallets

| | |
|---|---|
| Owner address | 0x4a9FEAEb0C318Ac36feE93CB8cBc4fC257CD7Aa5 |
| *FAIRSALE Contract | 0x283dB8aA9C7a065c0C43811E1Cae3Db6B8410a02 |
| *Tax store wallet | Same as owner |
| LP token address | No liquidity added yet |

# Top 3 Unlocked Wallets

| | |
|---|---|
| Wallet 1   (100%) | Same as owner |

# Tokenomics

## Current state

**This is TESTNET contract**

# Security Threads

⚠️ **Owner can mint (create) new tokens up to 100,000,000.**
**This can lead to token price inflation and liquidity drain if sold to market.**

```solidity
_totalSupply = 2;
_maxSupply = 100,000,000;

function mint(uint256 amount) public onlyOwner returns (bool) {
    require(
        amount.add(_totalSupply) <= _maxSupply,
        "MBP: cannot mint more than maximum supply"
    );
    _mint(_msgSender(), amount);
    return true;
}

function _mint(address account, uint256 amount) internal {
    require(account != address(0), "BEP20: mint to the zero address");

    _totalSupply = _totalSupply.add(amount);
    _balances[account] = _balances[account].add(amount);
    emit Transfer(address(0), account, amount);
}
```

**Owner can change buy/sell fees up to 100%.**

```solidity
function updateBuyTax(uint256 _percentage) external onlyOwner {
    _BUY_TAX = _percentage;
}
function updateSellTax(uint256 _percentage) external onlyOwner {
    _SELL_TAX = _percentage;
}
```

# Security Threads

⚠️ **Owner can change FairSale contract address.**
**FairSale contract address can mint (create) new tokens up to 100,000,000.**
**The current FairSale contract can mint new tokens up to 24,000,000.**

```
function setFairsaleContract(address _fairsaleContract) external onlyOwner {
    FAIRSALE_CONTRACT = _fairsaleContract;
}

function mintSupply(address _investorAddress, uint256 _amount) external {
    require(
        msg.sender == FAIRSALE_CONTRACT,
        "BEP20: Only Presale contract can use this fuction"
    );
    _mint(_investorAddress, _amount);
}
```

# Smart Contract Summary

| | |
|---|---|
| Contract Name | MBPFairlaunch |
| Ticker | N/A |
| Contract | 0x283dB8aA9C7a065c0C43811E1Cae3Db6B8410a02 <br> **Token minting contract** |
| Network | Binance smart chain **TESTNET** |
| Language | Solidity |
| Referral Percentage | **5%** |
| Pool supply | 24,000,000 |
| Status | Deployed |

# Featured Wallets

| | |
|---|---|
| Owner | 0x4a9FEAEb0C318Ac36feE93CB8cBc4fC257CD7Aa5 |
| MBP Contract | 0x64Bc4675516608E1Dc45Cb5E08585C5db9e9F6a8 |
| Withdrawal address | Same as owner |

# SpyWolf

# Security Threads

Owner can change refund, sale and claim states.
For investor to be eligible for refund, the following conditions must be met:
sale_enabled must be disabled once so the owner can turn refund_enabled on.
refund_enabled must be enabled by the owner.
claim_enabled must be disabled.

```solidity
function setSaleEnabled(bool _enabled) external onlyOwner {
    sale_enabled = _enabled;
}

function setClaimEnabled(bool _enabled) external onlyOwner {
    claim_enabled = _enabled;
    if (_enabled == true) {
        refund_disabled_forever = true;
        sale_enabled = false;
    }
}

function setRefundEnabled(bool _enabled) external onlyOwner {
    if (_enabled == true) {
        require(
            !sale_enabled,
            "PMBP: Refund can not be enabled when sale is currently active"
        );
        refund_enabled = _enabled;
    } else {
        refund_enabled = _enabled;
    }
}
```

Owner can change referral bnb reward percent.

```solidity
function setReferralPercentage(uint256 _percentage) external onlyOwner {
    referral_percentage = _percentage;
}
```

# Security Threads

Owner can set vesting claim amounts as follows:

20% of total purchased tokens if Vesting1 mode is set.

40% of total purchased tokens if Vesting2 mode is set.

All of purchased or remaining tokens if Vesting3 mode is set.

⚠️ If none of the above modes is set to true, investor can't claim any tokens.

```solidity
function setVesting1Enabled(bool _enabled) external onlyOwner {
    if (_enabled == true) {
        vesting_2_enabled = false;
        vesting_3_enabled = false;
    }
    vesting_1_enabled = _enabled;
}

function setVesting2Enabled(bool _enabled) external onlyOwner {
    if (_enabled == true) {
        vesting_1_enabled = false;
        vesting_3_enabled = false;
    }
    vesting_2_enabled = _enabled;
}


function setVesting3Enabled(bool _enabled) external onlyOwner {
    if (_enabled == true) {
        vesting_1_enabled = false;
        vesting_2_enabled = false;
    }
    vesting_3_enabled = _enabled;
}
```

# Security Threads

⚠️ **Owner can withdrawal funds from the contract at any time, even if the investors did not claimed their tokens.**

```
function withdrawFunds(uint256 _amount) external onlyOwner {
    WITHDRAWAL_ADDRESS.transfer(_amount);
}
function withdrawFundsAlt(uint256 _amount) external onlyOwner {
    (bool success, ) = WITHDRAWAL_ADDRESS.call{value: _amount}("");
    require(success);
}
```

**Owner can change referral bnb reward percent.**

```
function setReferralPercentage(uint256 _percentage) external onlyOwner {
    referral_percentage = _percentage;
}
```

**Notes**

When user refund the invested funds, this is not taken into consideration in the totalBnbInvested variable.
For example if 10 users invested 1 bnb but 3 of them issue full refund, 7 bnb remaining for the presale but the totalBnbInvested is still at value 10.

# Mobi Pad
# Project & Team Review

According to their website and roadmap:

Mobipad will be launchpad implementing multi-chain fundraise system across different blockchains.

There will be tiered system where users will be required to own tokens/NFTs in order to participate in new projects launched on the platform.

MobiPad will offer the ability to auto claim vested tokens after fundraising, independent of both project owners and the MobiPad team.

There will be also SAFU fund which will cover funds of investors in case of rugpulls. MobiPad will also develop mobile app for easier interaction.
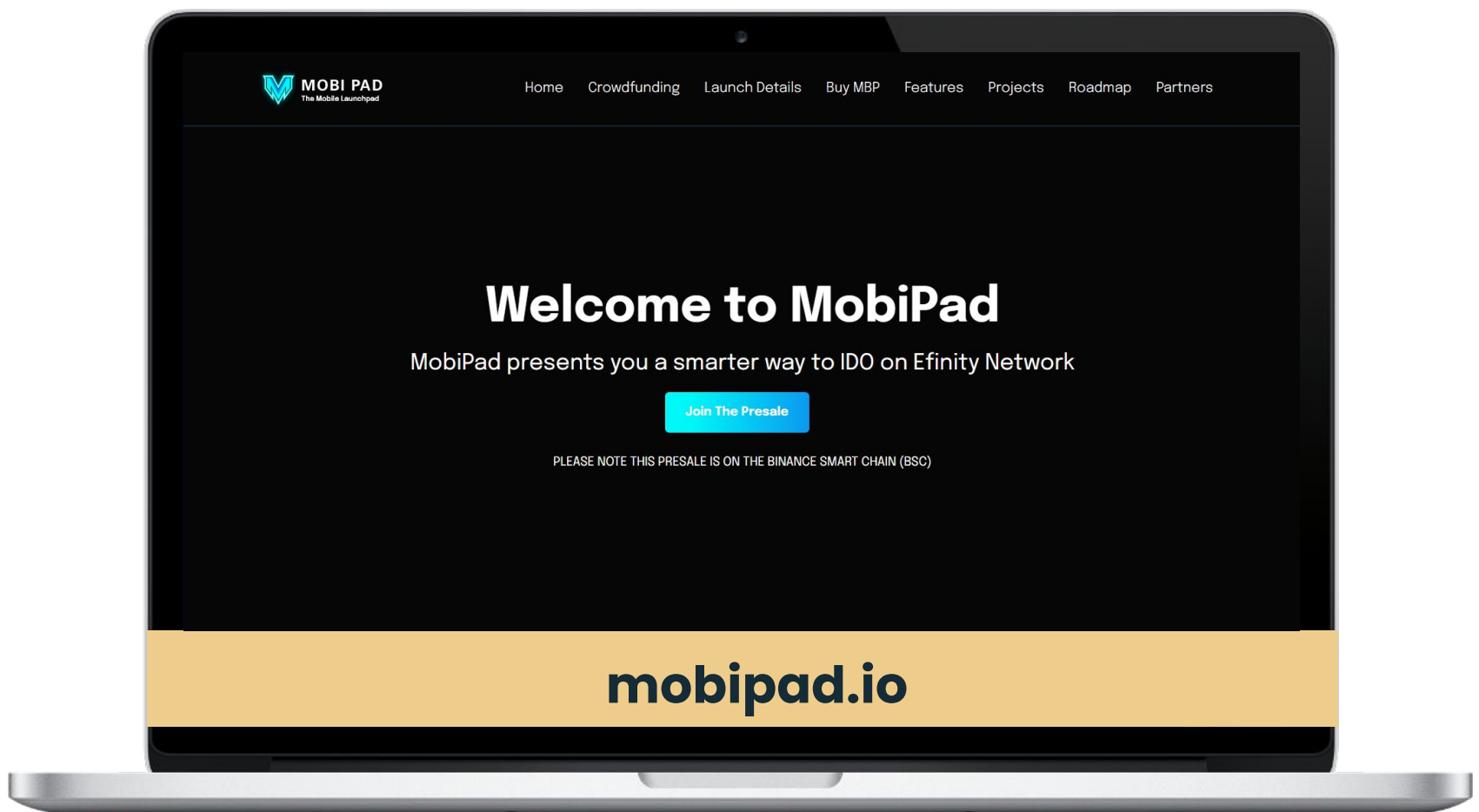
**Team:**

⚠️ **Team has not been KYC'd** ⚠️

# Website Analysis

URL: https://mobipad.io/

- **Design:** Pleasant design, single template page, appropriate color scheme.

- **Content:** Informative, well structured.

- **Whitepaper:** No whitepaper present. ⚠️

- **Roadmap:** Goals set at 5 phases without time frames.

- **Mobile-friendly?:** Yes

- **Technical:** SSL certificate present. General SEO check passed.

# SpyWolf
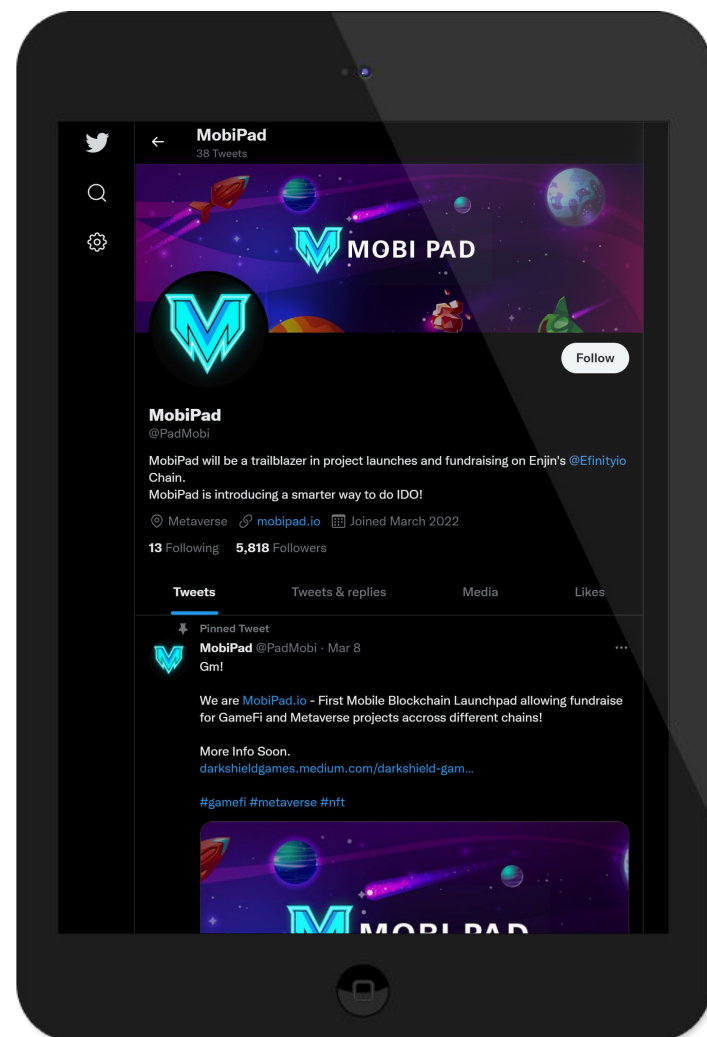
# Social Media & Online Presence

## Telegram

https://t.me/MobiPad

—————————————

- 5 302 members
- No active members ⚠️
- No active mods ⚠️

## Twitter

https://twitter.com/PadMobi

—————————————

- 5 817 Followers
- Active

# About SpyWolf

SpyWolf is a team of crypto security experts that have been performing full audits for projects for the past months in order to ensure safety on the crypto space. Our goal is to help eliminate monetary fraud through our auditing services and utility token, $SPY.

▶ Website: SpyWolf.co

▶ Portal: SpyWolf.network

▶ Telegram: @SpyWolfNework

▶ Twitter: Twitter.com/SpyWolfNetwork
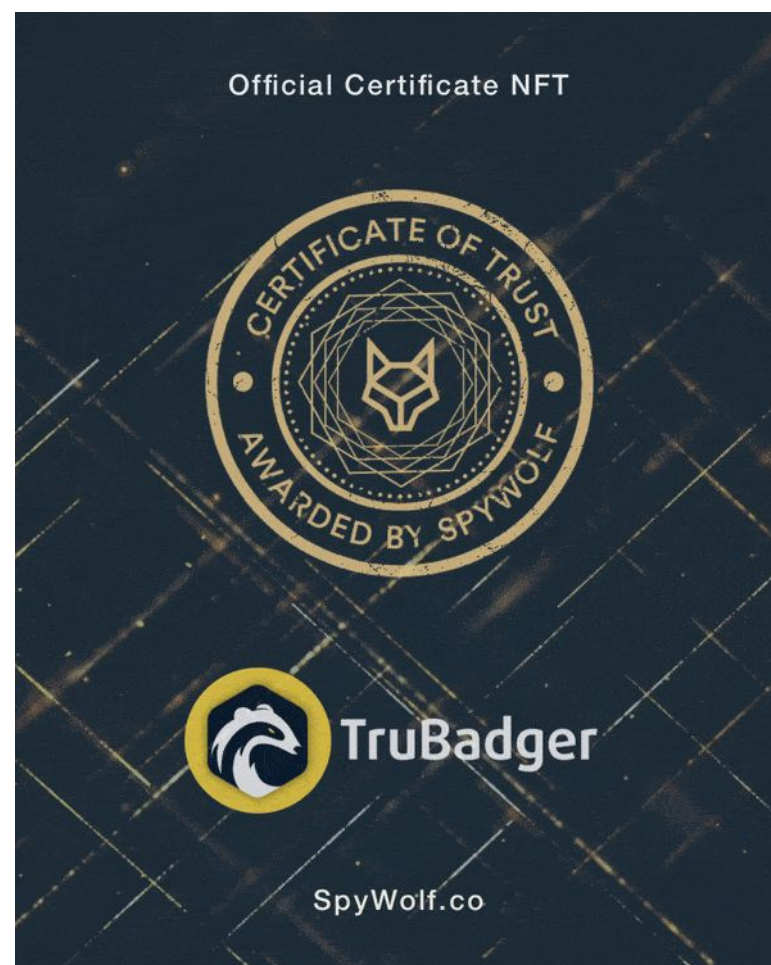


(Sample Certificate NFT for those who pass audit)

**If you are interested in finding out more about our audits and Certificate of Trust NFTs, reach out to contact@spywolf.co.**

# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.